Panasonic

ideas for life

# 2006

## Car Audio & DVD Car Navigation System

car·systems

## Blue Arc Shaped Design

*The blue arc is the symbol of Power, Innovation,Connectivity and our Promise of better things to come. It is the arc of electricity that ignites the engine, the spark that inspires new ideas, the powerful arches that bridge our world and the crescent on the horizon that heralds a new day. The blue arc shaped design stands for all these things, and provides a tantalizing glimpse of an exciting future. Now you find this distinctive emblem on our new lineup, illuminating your car entertainment with the arc of cool blue power.*

## End-to-End Digital Power

*In 2006, Panasonic turns up the power of "Full Digital". It is a ticket to the best seat in the house, the magic that lets our components play in perfect harmony, and the secret behind our intuitive interface that provides easy control of a vast array of digital media and formats. Simply speaking, it is the key to the coolest in-car entertainment experience on the planet.*

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## *The Art of Sound*

***The dynamic new styling sets the stage for a unique entertainment experience. Even before you turn it on, you feel a sense of empowerment. The dawn of a new era of in-car entertainment is here.***

**From the cool new design concept to expanded performance features, Panasonic pays attention to every detail and incorporates design features that put safety first without sacrificing elegance. Panasonic's new car entertainment systems are works of art and a joy to use.**

# The New Concept

### – Promise of Power & Quality

Virtually all of our new models for 2006 can be identified by the distinctive blue arc shape design. Symbolizing the enhanced power and dynamic performance our new lineup, the arc conjures images of the arc of energy that ignites your engine, the spark of innovation that inspires our technology, and the strength of the arched bridges that carry you across new frontiers. In the gleaming chrome accent, you sense the quality that is the promise of Panasonic. When you are ready to step up to the ultimate in audio and visual entertainment systems for your car, it will be easy to find. Just look for the cool blue arc of power.



**The blue arc shaped design theme also reflects the smile of satisfaction and confidence that intuitive interface architecture and safety design features bring to the faces of our users.**

### Motorized Display Face – A Look at Safety

Panasonic's "user-first" design is about comfort, ease-of-operation and above all, your safety. The motorized display on our CD players is just one example of how effortless control of your car entertainment centre contributes to safe driving. Press a button and the lower edge of the motorized faceplate glides out, tilting the faceplate to your choice of three angle settings. The ideal viewing angle lets you grasp operation status at a glance and keep your eyes on the road. The front face also automatically opens for CD loading and ejection.

### Large Rotary Volume Control Knob

Reach, grip and control! The solid tactile feedback and smooth operation of the easy-to-grip large rotary volume control knob provides a simple control interface. It not only gives your system the look and feel of a quality home hi-fi, it also allows you to keep your attention on the road. Just push in the knob to make item selections, and turn it to adjust level. The sleek plated finish against the black chrome panel lends an air of sophistication to the face of your system.

Remote Control In
Stay in safe control of both your car and audio system by connecting the Remote Control Input with the optional adapter to your original dashboard or steering wheel remote control system.

## *Express Yourself!*

***Dynamic & Beautiful!***
***An expanded range of colours and dynamic images lets you express your personality in vivid detail. It is a visual statement of who you are and your satisfaction with nothing less than the best.***

**More beautiful and more functional! Our improved CD player / receiver display boasts more colours and better clarity with superb brightness. The dynamic display reflects the astounding performance within, while heightened visibility ensures safer and easier operation.**

## 4096-Colour OEL – Big and More Beautiful

Leaping from 512 to 4096 displayable colours, the new organic luminescence (OEL) multi-colour display achieves the high brightness and viewing angle of LEDs while outperforming the resolution and power efficiency of conventional LCDs. Delivering 5 times better contrast than conventional LCDs and faster response time for more dynamic expression, Panasonic OEL display technology produces dynamic 3D action displays in up to 4096 colours on the 172 x 54 pixel screen. The improved readability of text makes exploring the rich functionality of Panasonic easier than ever before. With the Customize function, you can load and show unique images.

4096 COLOR DISPLAY

## Variable Full Colour – The Style Setter

Match the look of your system to your car interior with Variable Colour. You can coordinate the back-light colour of your head unit display with your car interior by selecting from convenient presets or create your own signature colour from among 9261 shades. Each RGB LED in the fine matrix can be adjusted in 21 steps to produce very delicate shades to perfectly match your interior or personality.

VARIABLE COLOUR

## 3DDM – Make It Perfectly Clear

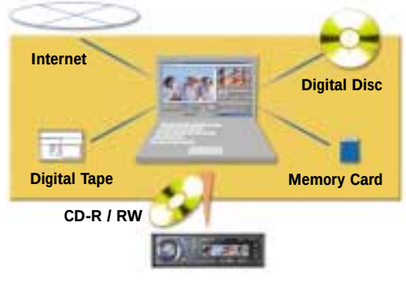
Adding visual excitement to your dash with smoothly rendered full-motion graphics, the superb resolution of our 3DDM (3D-Dot Matrix) technology displays information with excellent clarity.
In addition to the built-in graphics, you can use our Customize feature and install a photo or image that pulsates and moves to the sound of the music or even a moving image.

3DDM

## Customize – Your Signature System

Your choice of music reflects your taste and personality, and so should the look of your system. At Panasonic's Customize site, you can choose from a wide variety of still image variations, sets of opening / ending moving themes, and types of moving images. Just download, burn your selection on a CD-R and install it in your system. For a truly personal touch, the "Panasonic IMAGE STUDIO" editing/conversion application can also be downloaded and installed in your computer system, enabling you to create a signature image for your car interior.

CUSTOMIZE



+This download service is exclusively for the Panasonic CQ-C8803N, CQ-C8403N, CQ-C7703N and CQ-C7303N. It cannot be used for other car audio products (or other products). +This download service is not available in some areas.
For details, please access the Panasonic website. (http://www.panasonic.co.jp/pas/en/software/customize/index.html) +Contents are added /updated on a regular basis. +This download service may change or stop without notice, depending on circumstances. +We are exempt and immune from any and all liability or responsibility for any reason in case of direct or indirect damages suffered by a user in connection with this download service for still and motion image data. +For details on how to use the customization function, please refer to the user's manual enclosed with the product. +Supported OS:Windows Me / Windows 2000 / Windows XP +CPU: PentiumII 400 MHz or above is recommended. +Memory: 128MB or more is recommended. +Display: Resolution of 800 x 600 or above (1024 x 768 or above is recommended), 24bit or greater +Required Available Space: Available space of 400 MB or more +Software: Microsoft Internet Explorer 5.0~6.0 is recommended. +Caution: Not supported on Apple Macintosh and Windows NT. There is no guarantee that the application will run on all computers with the recommended operating environment.

Note: Some display screens shown on pages 6 and 7 are simulated and may differ in appearance from actual head unit display images.

## *Plug into Variety*

***Plug and play on the road! Panasonic brings the age of networking and expanded multimedia content to in-car entertainment with unprecedented connectivity and compatibility.***

### Expansion Module Connection




Note: Expansion Module enables simultaneous connection of a maximum of 4 (13PIN) and 1(RCA) devices. Optional connecting cable for Expansion Module is required. Please refer to page 29.

**CY-EM100N**
Expansion Module

**Our 2006 models introduce expanded wired and wireless connectivity with a broad range of devices and the ability to explore a new world of in-car entertainment possibilities. Combined with expanded compatibility with the latest media and compressed data formats and our intuitive media management interface, our new systems offer unparalleled freedom of choice.**

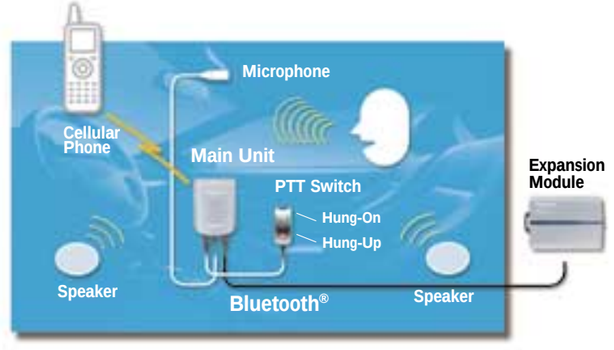


# Expansion Module – "Plug and Play" Hub

Panasonic opens the door to connectivity with the launch of the revolutionary Expansion Module. Ever since we first brought multimedia entertainment into the car cabin, consumers have been saying things like, "I wish I could show you what's in my camcorder," and "If only I could plug in a real game console". More recently, "It would be great to access the thousands of tunes in my iPod®!"
Panasonic has been listening. The industry-first Expansion Module is our easy and elegant solution to all your wishes. Once connected to any of our new top-of-the-line head units, the Expansion Module becomes your in-car hub. Imagine! Plug in and play mini-DV tapes over our new overhead monitor. Plug in and play the latest video game titles on a state-of-the-art console. Plug in a DVD changer and play your movie collection. And of course, it is also ready for the ubiquitous iPod®, giving you easy access to your huge library of music, audio books and podcasts.

## Bluetooth® Unit - "Hands Free" Safety

Our Bluetooth® expansion kit is a complete solution for anyone who uses a mobile phone behind the wheel. The kit has everything you need to connect a Bluetooth®-ready mobile phone for safe "hands free" operation including a handy Push-to-Talk switch and a microphone with easy mounting bracket. It can be easily connected directly to our new head units or Expansion Module.

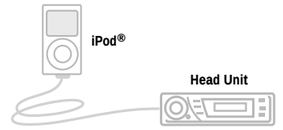



## WMA, MP3, and Smart File Management

Play music stored in the popular MP3 (MPEG Layer-3) audio compression format or the new Windows Media Audio (WMA) – the advanced format that delivers near-CD audio quality in only half the space of an MP3 file. Panasonic lets you do both! MP3 and WMA music files can be downloaded from online music stores via the Internet or "ripped" from your CD library. Then just create a custom disc of your favourite tracks by burning them onto a CD-R or CD-RW for easy loading in the Panasonic car audio system. Of course if you have our new iPod®-ready system, just load your iPod® and connect.
Your CD-R or CD-RW can be packed with up to 20 CDs of songs, giving you access to a vast selection of music. The familiar PC-like interface of Panasonic's powerful file management system makes it easy to navigate through a maximum of 999 files and folders per disc. Navigation of the tree of folders and files is simple, and the user can instantly call up the display of ID tag information such as artist names and track titles for quick confirmation. The system also offers one-touch selection of six convenient Play modes: Random, Repeat, Scan, Folder Random, Folder Repeat, and Folder Scan.

Made for iPod®*

Made for iPod®
The phenomenon of the iPod® has changed the way people enjoy music. Panasonic now lets you share your iPod® music collection with everyone in the car. Our new upper-end head units connect with the iPod® either directly via an optional cable or the Expansion Module. Any iPod® with a Dock connector can be connected. (As of January, 2006)




iPod® ‣ Head Unit Directly connect your iPod® to our new line of high-end head units. For more connectivity, just add the Expansion Module.

DVD / CD Changer ‣ Head Unit Enjoy the convenience of easy selection of movies and musics with a DVD/CD Changer directly connected to our innovative head unit lineup.

* iPod is a trademark of Apple Computer.Inc., registered in the U.S. and other countries.

Bluetooth® Unit ‣ Head Unit Experience the freedom of wireless connections by directly plugging the new Bluetooth® unit into our new head unit.

Bluetooth®

The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co.,Ltd. is under license. Other trademarks and trade names are those of their respective owners.

Front AUX Input
For easy connection of external devices like iPod® and other external audio devices, the unit features a front AUX input. More connectivity plus user-friendly design is what the new lineup of Panasonic head units offers you. An optional mini-pin jack cable for the head unit is required.

Folder Tree Navigation
The same familiar hierarchy of folders and files that makes finding documents easy and intuitive on your PC has been adopted for management and navigation of compressed music files.

**Pump the Power!**

*Panasonic Full Digital is the power to reproduce the most delicate nuances with crystal clarity. And when it's time to rock, our digital amps pump it with power to spare and free from distortion.*

FULL DIGITAL

**Panasonic's Full Digital approach to audio system design is all about power! More power to amps! Clean power free of noise and distortion! Cool power for better efficiency and more compact design! Processing power for remarkably clear radio reception! Behind the elegant arc styling and harnessed by our easy-to-use interface, it waits to be unleashed.**

DIGITAL AMP 70W x4

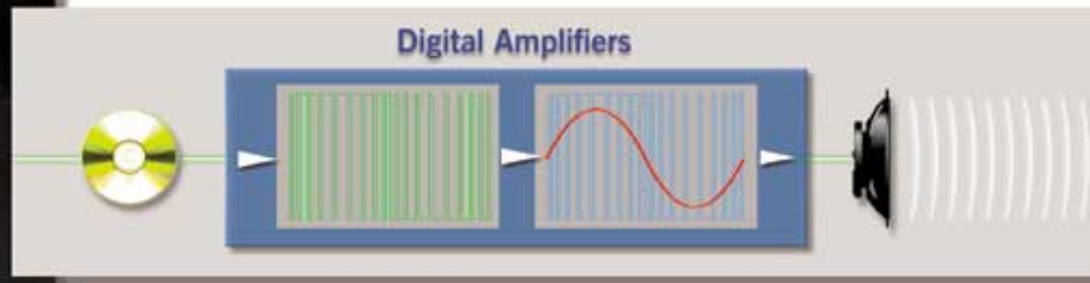
MOSFET 50W x4

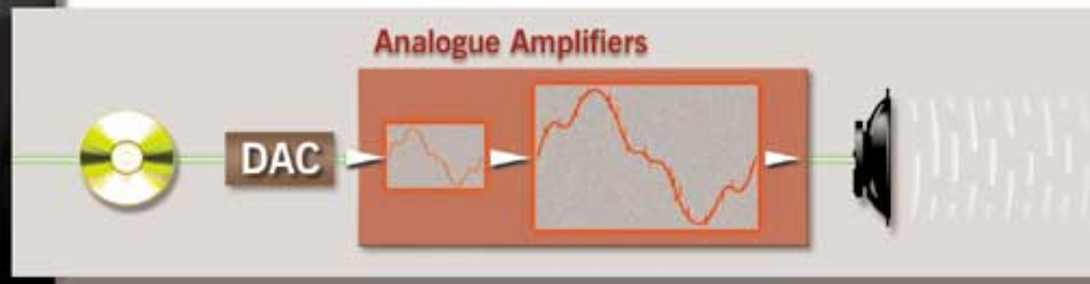
MOSFET 50W x 4
Boasting 4-channels - each with up to 50W of distortion-free power, this built-in amplifier is the driving force for our high-fidelity audio reproduction

## Full Digital – Amplify the Quality

The original all-digital design of Panasonic's top-of-the-line models for 2006 delivers maximum performance from almost any speaker system with superb stability. Conventional systems convert a signal from a digital source into analogue and then amplify it with an analogue amp. The result is noise, distortion and inefficiencies. By directly amplifying the digital signal, Panasonic's digital amp avoids this extra process for a cleaner sound. It also incorporates special integrated circuits to further suppress noise and express delicate nuances with astounding clarity. Featured in our flagship CD Player/Receiver, this direct processing and amplification of CDs and other digital sound sources reproduces audio with amazing fidelity.

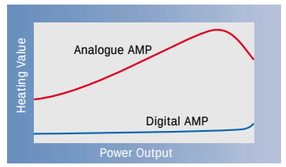
FULL DIGITAL




## Digital Amp – It's Truly Cool Technology

Imagine 70W x 4 channels of pure digital power! Panasonic's flagship "Full Digital" amp delivers that and more. Unlike a conventional analogue amp with a 50% efficiency rating, Panasonic's advanced amp design achieves a 90% rating. While half of the power of conventional amps is lost in heat generation, our "cool" digital amps deliver almost every watt of power to your ears without noise, distortion or waste heat. The reduced heat generation also means that bulky and heavy cooling fins are unnecessary, allowing us to create a more compact and lightweight component.




## Radio DSP – Crystal Clear Reception

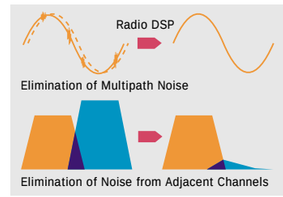
Panasonic's Radio DSP is more than a digital reception-ready solution. Positioned between the tuner and the amplifier, it provides a wide range of benefits including immunity to multipath signal interference and pulse noise, signal conditioning, and improved acoustic effects. It also eliminates bothersome interference from adjacent channels. The digital conversion technology combined with sophisticated signal processing enhances the radio listening experience with superb clarity. Also users can choose from three easy noise suppression presets for both FM and AM radio reception: Auto, Mid and Narrow, or fine tune the IF filter in up to 16 steps for an ideal setting.

PANASONIC INTELLIGENT RDS

Intelligent RDS (Radio Data System)
The Quick AF feature of this system actually memorises the strongest AF (Alternate Frequency) for recall when revisiting an area. Enjoy simplified tuning and data broadcast reception with selectable sensitivity settings to compensate for "strong" urban signals and "weaker" signals in suburban/rural areas.

## THROUGH Mode – Another "User-First" Idea

For the many people who use an FM Modulator to play portable devices through their car audio systems, Panasonic's Radio DSP features the THROUGH Mode. Found in our latest models, this FM Modulator THROUGH Mode delivers even clearer reception from portable digital music players and other audio devices equipped with FM transmission capability. The unique THROUGH Mode keeps the original sound quality intact by negating the high-frequency compensation that is normally applied by the tuner.



## *"See" the Music!*

***Panasonic precision sound imaging fills the senses with music. The mind's eye sees the stage, bones resonate to the beat, and skin tingles with the electricity of the performance. The essence of sound quality!***

**Panasonic audio enhancement technology changes the way you listen to music. The sound imaging is so real you can almost touch it. Panasonic now offers advanced audio enhancement technologies across the entire player / receiver lineup.**

DUAL PREAMP 5v/60Ω  DUAL PREAMP 2.5v/200Ω

Dual Preamp Outs
Front and rear dual preamp outs (5V, 2.5V or 2V) for a wide dynamic range and high S/N ratio, and fader control to provide balance for built-in and outboard amps.

5v SUBWOOFER  2.5v SUBWOOFER

Subwoofer Ready
Subwoofer out (5V or 2.5V) for easy addition of an external amp and one or more subwoofers to boost bass.

# SRS CS Automotive*

### – For the Audio Sweet Spot

The car cabin environment is a hostile environment for audio excellence. Low-positioned speakers, lack of a centre speaker and other problems prevent conventional systems from delivering a natural sound. Featured in our flagship models, Circle Surround (CS) Automotive from SRS Labs responds to the challenge with the highly advanced Circle Surround II* Decoder for a much broader audio "sweet spot" and powerful features like SRS FOCUS* sound elevation technology, SRS TruBass* for cinema-like bass and "Mix to Rear" for an improved rear-seat sound experience.

SRS CS Auto

### Circle Surround II®
### – Performance Beyond Your Imagination

At the heart of SRS CS Automotive is Circle Surround II, which utilizes a high-performance and extremely versatile surround decoder. It can generate 360° multi-channel audio from a stereo source and produce a Phantom Centre, eliminating the need for a centre speaker. User can easily select one of 3 ready-to-use modes: Cinema, Music and Mono, and enjoy the equivalent of 5.1 ch from 4 speakers with satisfying front stage imaging.



### SRS FOCUS® – Elevate Performance

Your speakers may be at your feet, but this audio enhancement technology puts the sound field up and in front of you, just where you expect it to be. SRS FOCUS not only shapes frequency characteristics to enable perception of the desired image height, but also improves clarity of higher frequencies. And to ensure the ideal sound image for the unique speaker locations in your car, it is customizable.

### TruBass® – Mind Over Matter

Don't boost bass and blow your speakers! TruBass uses the principles of psychoacoustics to enhance perception of deeper, richer bass – as much as an octave below the actual frequency limitations of the speakers. By using all 4 channels for bass reproduction, it immerses the listener in exciting bass.

### "Mix to Rear" – Every Seat is the Best Seat

For a richer sound in the rear seat, "Mix to Rear" mixes the front channel sound into the rear channels, compensating for the thin sound in the rear of the sound field. Now passengers in the back seat can enjoy the full experience of your high-fidelity audio system.

# SRS WOW®*

### – The Name Says It All!

The new mid-range lineup of player / receivers also boasts an award-winning SRS suite of audio enhancement technologies to dramatically improve audio performance. Sound enrichment of SRS WOW is remarkable especially with digitally compressed formats such as WMA and MP3. Creating the impression of improved dynamics and bass over existing speakers, it extends the sound field for a panoramic 3D audio image. With cutting-edge 3D sound enhancement Sound Retrieval System technology as its core, SRS WOW enhances your system performance with key technologies like TruBass® and FOCUS®, which are usually found only in high-end models.

SRS WOW

# SRS TruBass®

### – For Big Bass from Any System

Our most affordable models for 2006 also feature SRS TruBass. This dynamic bass enhancement technology not only delivers deeper, richer bass from even small speakers, but also enhances the dynamics and warmth of the low and mid range of your music. Delivering a sound experience far beyond the capabilities of your system, our reasonably priced models with this advanced processing technology offer incredible cost performance.

SRS TruBass

*"CS Automotive", "Circle Surround II", "FOCUS", "TruBass", "WOW", SRS and ( ) symbol are trademarks of SRS Labs, Inc.

## CQ-C8803N WMA MP3 CD Player / Receiver with 4096 Colour OEL Display

CD · CD-R · CD-RW · WMA · MP3

DIGITAL AMP 70W x4 · 4096 COLOR DISPLAY · FULL DIGITAL · CUSTOMIZE · MOTORIZED MOUNTING FACE · EXPANSION MODULE READY · SQ9 SOUND QUALITY · CROSSOVER · SRS CS Auto · DUAL PREAMP 5v/60Ω · 5v SUBWOOFER

SBC SUBWOOFER · PANASONIC INTELLIGENT Ri Di Si · ID3 TAG · CD TEXT · CD CH CONTROL · DVD CH CONTROL · AUX · REMOTE IN · DETACH · ISO · REMOTE CONTROL

### Audio Section
70W x 4 High Power
Full Digital (Digital Amp / Radio DSP)
Sound Quality 9
Crossover
Mute / Attenuator
SBC-SW
SRS CS Auto
Separate Bass, Treble, Balance, Fader
5V / 60Ω Dual Preamp Outs
5V Subwoofer Out

### Tuner Section
Radio DSP with FM Transmitter Mode
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

### CD Player Section
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
File Tree Display
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

### Changer Control Section
CD Changer Control
DVD Changer Control

### Other Features
Motorized Display Face
Maximum 4096 Colour OEL Display : Customize
Blue ARC Illumination
Button Illumination Colour : Blue
AUX Input
Remote Control In
Face Colour : Chrome Black
Removable Faceplate
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control



## CQ-C8403N WMA MP3 CD Player / Receiver with 4096 Colour OEL Display

CD · CD-R · CD-RW · WMA · MP3

MOSFET 50W x4 · 4096 COLOR DISPLAY · CUSTOMIZE · MOTORIZED MOUNTING FACE · EXPANSION MODULE READY · SQ7 SOUND QUALITY · CROSSOVER · SRS WOW · DUAL PREAMP 5v/60Ω · 5v SUBWOOFER

SBC SUBWOOFER · PANASONIC INTELLIGENT Ri Di Si · ID3 TAG · CD TEXT · CD CH CONTROL · DVD CH CONTROL · AUX · REMOTE IN · DETACH · ISO · REMOTE CONTROL

### Audio Section
50W x 4 High Power
MOSFET Output Stage
Sound Quality 7
Crossover
Mute / Attenuator
SBC-SW
SRS WOW
Separate Bass, Treble, Balance, Fader
5V / 60Ω Dual Preamp Outs
5V Subwoofer Out

### Tuner Section
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

### CD Player Section
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
File Tree Display
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

### Changer Control Section
CD Changer Control
DVD Changer Control

### Other Features
Motorized Display Face
Maximum 4096 Colour OEL Display : Customize
Blue ARC Illumination
Button Illumination Colour : Blue
AUX Input
Remote Control In
Face Colour : Chrome Black
Removable Faceplate
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control

## CQ-C7703N

### WMA MP3 CD Player / Receiver

**Audio Section**
70W x 4 High Power
Digital Amp
Sound Quality 7
Crossover
Mute / Attenuator
SBC-SW
SRS WOW
Separate Bass, Treble, Balance, Fader
2.5V / 200Ω Dual Preamp Outs
2.5V Subwoofer Out

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

**CD Player Section**
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
File Tree Display
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

**Changer Control Section**
CD Changer Control
DVD Changer Control

**Other Features**
Motorized Display Face
Variable Colour Display
3DDM Display : Customize
LCD Illumination Colour : Variable
Button Illumination Colour : Variable
ARC Illumination : Variable
AUX Input
Remote Control In
Face Colour : Chrome Black
Removable Faceplate
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control

## CQ-C7303N

### WMA MP3 CD Player / Receiver

**Audio Section**
50W x 4 High Power
MOSFET Output Stage
Sound Quality 7
Crossover
Mute / Attenuator
SBC-SW
SRS WOW
Separate Bass, Treble, Balance, Fader
2.5V / 200Ω Dual Preamp Outs
2.5V Subwoofer Out

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

**CD Player Section**
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
File Tree Display
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

**Changer Control Section**
CD Changer Control
DVD Changer Control

**Other Features**
Motorized Display Face
Variable Colour Display
3DDM Display : Customize
LCD Illumination Colour : Variable
Button Illumination Colour : Variable
ARC Illumination : Variable
AUX Input
Remote Control In
Face Colour : Chrome Black
Removable Faceplate
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control



## CQ-C5303N

### WMA MP3 CD Player / Receiver

**Audio Section**
50W x 4 High Power
MOSFET Output Stage
Sound Quality 3
Mute / Attenuator
SRS TruBass
Separate Bass, Treble, Balance, Fader
2.5V / 200Ω Dual Preamp Outs

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

**CD Player Section**
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

**Changer Control Section**
CD Changer Control

**Other Features**
Motorized Display Face
LCD Illumination Colour : Black
Button Illumination Colour : Red / Green
AUX Input
Remote Control In
Face Colour : Chrome Black
Removable Faceplate
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control

## CQ-C3503N

### MP3 CD Player / Receiver

**Audio Section**
50W x 4 High Power
Sound Quality
Mute / Attenuator
SRS TruBass
Separate Bass, Treble, Balance, Fader
2.5V / 200Ω Dual Preamp Outs

**Tuner Section**
18FM, 6MW (LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

**CD Player Section**
CD-R / CD-RW Playback
MP3 Playback
ID3 Tag
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

**Other Features**
LCD Illumination Colour : Black
Button Illumination Colour : Red / Green
Front AUX Input
Remote Control In
Face Colour : Silver
Removable Faceplate
Remote Control Unit
ISO Connector

Remote Control

## CQ-C3303N

### MP3 CD Player / Receiver

(Option)

**Audio Section**
50W x 4 High Power
Sound Quality
Mute / Attenuator
Separate Bass, Treble, Balance, Fader
2.5V / 200Ω Preamp Out

**Tuner Section**
18FM, 6MW (LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Tuning with DX / Local Switch

**CD Player Section**
CD-R / CD-RW Playback
MP3 Playback
ID3 Tag
CD Text Display
3-Beam Hologram Pickup
Scan, Search, Repeat and Random Play
Pause

**Other Features**
LCD Illumination Colour : Black
Button Illumination Colour : Red
Front AUX Input
Remote Control In
Face Colour : Silver
Removable Faceplate
Remote Control Unit (Option)
ISO Connector

Remote Control (Option)



## CQ-C1323N

### MP3 CD Player / Receiver

CQ-C1313N

CQ-C1303N

C1323N
C1313N
C1303N
(Option)

**Audio Section**
50W x 4 High Power
Sound Quality
Mute
2.5V / 200Ω Preamp Out

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity

**CD Player Section**
CD-R / CD-RW Playback
MP3 Playback, ID3 Tag
CD Text Display

**Other Features**
LCD Illumination Colour : Blue (C1323N), Black (C1313N and C1303N)
Button Illumination Colour : Red (C1323N and C1313N), Green (C1303N)
Front AUX Input
Remote Control In
Face Colour : Black
Removable Faceplate
Remote Control Unit (Option 8 keys)
ISO Connector

Remote Control (Option)

## CQ-C1312N

### WMA MP3 CD Player / Receiver

**Audio Section**
50W x 4 High Power
Sound Quality
Mute
2.5V / 200Ω Preamp Out

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity

**CD Player Section**
CD-R / CD-RW Playback
WMA / MP3 Playback
ID3 Tag
CD Text Display

**Other Features**
LCD Illumination Colour : Black
Button Illumination Colour : Red
Remote Control In
Face Colour : Black
Removable Faceplate
ISO Connector

## CQ-C1123N

### CD Player / Receiver

CQ-C1113N

CQ-C1103N

C1123N
C1113N
C1103N

**Audio Section**
45W x 4 High Power
Sound Quality
Mute

**Tuner Section**
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity

**CD Player Section**
CD-R / CD-RW Playback

**Other Features**
LCD Illumination Colour : Blue (C1123N), Black (C1113N and C1103N)
Button Illumination Colour : Red (C1123N and C1113N), Green(C1103N)
Remote Control In
Face Colour : Black
Removable Faceplate
ISO Connector

## *The Digital Way to Get There!*

***Just enjoy the drive. Panasonic's "smart" navigation system makes travelling to new destinations a stress-free experience. And less worry about the next turn means more attention on the road.***

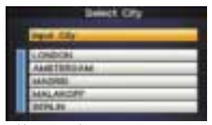
CQ-VD7003N

CN-DV2300N

Full Information Map

POI Search Menu (Petrol Station)

POI Search Menu (Hotels)




Address Search Menu

Marked Point Search Menu

**Panasonic digital car navigation technology tells you more than where you are, where your destination is, and how to get there. It provides optimum routing for the dynamic road environment as well as access to a database of petrol stations, restaurants and other points of interest along the way.**

### DVD-ROM Navigation – A Continent on a Disc

The giant capacity of a single DVD-ROM can hold about seven CDs of data – enough to store all the navigation maps and data necessary to travel virtually anywhere in Europe. Just set a destination in any of 17 countries and you are ready to go. Regions include Austria, Benelux, Czech, Denmark, Finland, France, Germany, Italy, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom. Just load the disc in our versatile DVD-ROM navigation system and you have maps for almost all of Europe as well as voice and menu data in 8 languages. Compatibility with readily available discs in the SDAL (Shared Database Access Library) format lets you keep your navigation system up to date with the constantly changing road environment.






### POI Database – Help On the Way

Along the way, it is easy to find points of interest (POI) with the handy POI database and search function. The database holds over 910,000 POI across Europe, conveniently organized into 45 categories including hotels, parking facilities, petrol stations, and restaurants.

These figures are approximations.

The Panasonic DVD Car Navigation System and a single DVD-ROM provide safe and secure navigation to and through almost every country in Europe.

### Versatile Route & Destination Setting

Panasonic navigation lets you set destinations by postcode, and even plan multi-destination routes. And for quick selection and recall of destinations, the "Marked Point" function lets you organise and even assign names or icons to as many as 100 points on the map, and the system automatically saves the "history" of your 100 most recent destinations for easy recall. Optimized route planning for up to 5 "via" points is another example of how the versatile interface makes navigation so easy.

### TMC – Dynamic Response

Combining navigation with real-time traffic information from the Traffic Message Channel (TMC) system*, Panasonic provides valuable intelligence and plots the safest and quickest course to your destination around traffic problems. The TMC system delivers accurate real-time data on weather, construction, disasters and other road conditions and displays them on the map. Our digital DVD navigation system highlights potential bottlenecks on your map with familiar and easy-to-understand European-standard traffic icons. For a detailed text description of the problem and its impact, just click on the icon. You can then request the system to suggest alternative routes. A handy remote control with a numeric keypad makes operation as smooth as your route. Real-time DVD car navigation systems – just another smart idea for life on the road from Panasonic.

TMC TRAFFIC MESSAGE CHANNEL

* Information provided is dependent on the local TMC data provider and transmission conditions.

Road Condition Icons

TMC Information

**CY-TM100N**

Dynamic Navigation Unit

+ Built-In RDS-TMC Tuner (Traffic Message Channel)
+ Decoder for Real-Time Display of Traffic Information
+ Compact Size for Versatile Installation

Let's Go
to the Movies!
Thrills and chills! Tears and laughter! Only the seat belt keeps you from falling from the edge of your seat when Panasonic puts the show on the road.
Panasonic

**Boasting unrivalled performance and a host of advanced functionality and features, the expanded Panasonic audio-visual lineup brings the rich diversity of digital entertainment to the road. Complete with surround sound, the cinema experience is so powerful you may want to enjoy all your movies in your car.**

## New Wide 6.5-inch Colour LCD – Designed for 2-DIN In-Dash Installation!

Joining our popular line of 1-DIN units, our new wide 6.5-inch colour LCD is 2-DIN size for flush-fit in-dash installation. The wide-aspect LCD screen with 280,800 pixels and internal backlight offers a selection of display modes (NORMAL, FULL, ZOOM, and JUST) to support made-for-TV or letterbox format in the 4:3 aspect ratio. It also features compatibility with our new Expansion Module and is iPod® and Bluetooth® ready! Most of all the quality of the viewing experience is assured by state-of-the-art colour LCD technology, boasting natural colour with a high level of brightness.

## Dolby Digital & dts – State-of-the-art Cinema on Wheels

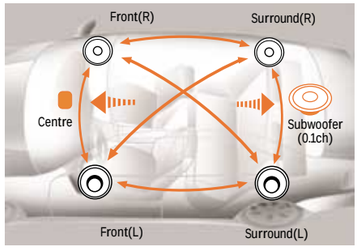
The realism of Dolby Digital and dts multiplies the visual impact of every scene. Supporting up to 5 discrete channels and an optional sixth channel for low-frequency effects, Dolby Digital 5.1 is the surround sound standard for home theatres. The alternative dts format with its higher data rates is also supported.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"dts" and "dts Digital Surround" are trademarks of Digital Theatre Systems, Inc.

## SRS CS Automotive – Get 5.1 from 4ch Systems

This powerful technology multiplies the performance of your existing components with sound image elevation, an enlarged sweet spot, and other amazing performance enhancers. SRS CS Automotive applies the magic of psychoacoustic principles to create the perception of rich bass pumped out of a virtual centre speaker from systems with only 4 channels. You experience the dramatic surround sound of 5.1ch for the reasonable cost of a 4ch system. Add our new single in-dash player/monitor to your system, and you can enjoy not only DVD-Video, CD, WMA/MP3, and FM/MW radio, but also upgraded audio performance.



## GUI Touch Panel – See, Touch & Enjoy!

Everything is exactly where you would expect. The menus, icons and simple layout of the intuitive graphical user interface make operation so easy to understand, you may never open the manual. No fumbling for buttons nor time lost figuring out what to do. You grasp the menu in an instant and lightly touch the screen. Your attention never strays from the road.

## Other Features

In designing our latest player/monitors, Panasonic has considered every aspect. We built in an FM/MW tuner complete with Radio DSP! We made sure there is power to spare by integrating a MOSFET 50W x 4 amp! Also they are ready to connect to both the Expansion Module and iPod®! We have even included capability to control both our new DVD changer and AUX right on the touch panel, 4-digit ID code security for your peace of mind, and the user-friendly rotary knob controller for a complete and extensible solution.

DSP (Digital Signal Processor)
Built-in DSP with 20-bit precision A/D and D/A converters –the same featured in Panasonic high-end home audio systems, for advanced sonic environment control and vivid sound.

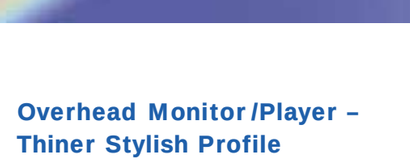
## Overhead Monitor /Player – Thiner Stylish Profile

Installed in the ceiling and out of the way, our new monitor/player with a flip-down 9-inch screen is almost a third thinner. The built-in player is not only compatible with DVD-Video, CD and CD-R/RW, but also plays MP3 music tracks, MPEG4 compressed video and JPEG still image content. A built-in infrared transmitter can send the audio signal to wireless headphones, allowing enjoyment of different content in the front and back seats as well as avoiding tangled cords. Other handy features include dual VTR inputs for connection to a variety of RCA-compatible video sources such as gaming consoles and camcorders.

DVD/ CD Changer Control
Conveniently operate all functions of a Panasonic DVD/CD changer from the front panel with the easy-to-install DVD/CD Changer Control. (No additional equipment required)

## DVD Changer

For easy access to a variety of media from DVD Video to CD and CD-R/RW, just load up the changer and choose from a menu of movies and music. Our newest in-dash player/monitor models are DVD changer-ready and provide easy touch-panel selection. Enjoy not only standard DVD Video and music CDs, but also Video CDs and custom-burned CD-R/RW collections of MP3 tunes. It also features an Anti-Shock Floating Mechanism that isolates the sensitive laser pickup from external vibrations to ensure skip-free performance.




## Wireless Headphones

No more cable tangles! A built-in infrared transmitter sends the audio signal to wireless headphones. Combined with Panasonic's Private Mode, front and rear passengers can enjoy different entertainment content.

# CQ-VD7003N

## In-Dash 7" Widescreen Colour LCD Monitor DVD Player / Receiver

### Colour LCD Monitor

7" Widescreen
16:9 Aspect Ratio
with Selectable Display Modes
(NORMAL / FULL / JUST/ ZOOM)
336,960-Pixel High-Definition Screen
Auto PAL / NTSC Selection
Automatic Flip-Up / Down by ACC key
Automatic & Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R / RW, Video CD and CD-R / CD-RW Playback
5.1-Channel Dolby Digital / dts Surround Decorder
WMA / MP3 Playback
ID3 Tag
CD Text Display
Automatic Disc Loading
Scan, Search, Repeat and Ramdom Play
Pause

### Audio Section

50W x 4 High Power
MOSFET Output Stage
SRS CS-Auto
2V / 600Ω Dual Preamp Outs
2V Subwoofer Out
2V Centre Speaker Out

### Tuner Section

Radio DSP with FM Transmitter Mode
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Turning with DX / Local Switch

### Changer Control Section

CD Changer Control
DVD Changer Control

### Other Features

Touch Panel Operation
Graphical User Interface
DVD Menu Direct Control
Button Illumination Colour : Blue
CODE Security
Remote Control In
Face Colour : Black
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control

Capability to playback DVD-R/DVD-RW discs recorded in video format (Video Mode) only. Playback of DVD-RW recorded in video recording format (VR Mode) is not possible.

Automatic Flip Up / Down

# CQ-VD6503N

## In-Dash 6.5”Widescreen Colour LCD Monitor DVD Player / Receiver

### Colour LCD Monitor

6.5" Widescreen
16:9 Aspect Ratio
with Selectable Display Modes
(NORMAL / FULL / JUST / ZOOM)
280,800-Pixel High-Definition Screen
Auto PAL / NTSC Selection
Motorized Display Face
Automatic and Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R / RW, Video CD and
CD-R / CD-RW Playback
5.1-Channel Dolby Digital /
dts Surround Decorder
WMA / MP3 Playback
ID3 Tag
CD Text Display
Automatic Disc Loading
Scan, Search, Repeat and Ramdom Play
Pause

### Audio Section

50W x 4 High Power
MOSFET Output Stage
SRS CS Auto
2V / 600Ω Dual Preamp Outs
2V Subwoofer Out
2V Centre Speaker Out

### Tuner Section

Radio DSP with FM Transmitter Mode
18FM, 6MW(LW) Station Presets
Selectable AF Sensitivity
Auto Preset Memory with Scan
Seek Turning with DX / Local Switch

### Changer Control Section

CD Changer Control
DVD Changer Control

### Other Features

Touch Panel Operation
Graphical User Interface
DVD Menu Direct Control
Button Illumination Colour : Blue
CODE Security
Remote Control In
Face Colour : Silver
Remote Control Unit
ISO Connector
Expansion Module Ready
iPod® Ready
Bluetooth® Ready

Remote Control

## CY-TUP153N

TV Tuner Unit

PAL / SECAM ( except L-SECAM ) System
12 Preset Channels for Each Band
4-Line Diversity Antenna (supplied)
Expansion Module Ready



# CQ-VHD9401N

## Overhead 9”Widescreen Colour LCD Monitor with Built-in DVD Player

### Colour LCD Monitor

9" Widescreen
16:9 Aspect Ratio
with Selectable Display Modes
(NORMAL / FULL / JUST / ZOOM)
336,960-Pixel High-Definition Screen
Auto PAL / NTSC Selection
Adjustable Flip-Down Angle
and Left / Right Swivel
Automatic and Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R/RW,
Video CD and CD-R / CD-RW Playback
5.1-Channel Dolby Digital /
dts Surround Decoder (2ch down mix)
MP3 Playback
ID3 Tag
Automatic Disc Loading
Scan, Search, Repeat and Random Play
Pause

### Other Features

Infrared Audio Output
for Wireless Headphones
(1 Set Supplied)
GAME Button on Wireless Remote
IR Transmitter
2 Sets of AV-In (RCA)
1 Set of AV-Out (RCA)
Digital Audio Output (Optical)
for Dolby Digital / dts
Face Colour : Grey
Built-in Reading Lights
Universal Trim Ring
Remote Control Unit
ISO Connector

Remote Control

# CY-VM7203N

## In-Dash 7"Widescreen Colour LCD Monitor

7" WIDE

AV in AV out REMOTE CONTROL

CODE SECURITY

### Features

7" Widescreen
16:9 Aspect Ratio with Selectable Display Modes (NORMAL / FULL / ZOOM / CINEMA)
336,960-Pixel High-Definition Screen
Auto PAL / NTSC / SECAM Selection
Automatic Flip-Up / Down by ACC key
Automatic and Mannual Dimmer
CODE Security

Remote Control

# CN-DV2300N

## DVD Car Navigation System

DVD ROM

CY-VM7203N
Recomended Combination

Closed Open

Remote Control with 10-key

### DVD Hardware

Powerful 32-Bit RISC Processor and High-Speed Drive
GPS Receiver
Compact Gyro-Sensor
Vehicle Speed Sensor
1-DIN Size
Intelligent Map Matching

### On-Screen Map Display

12-Step Map Scale and Orientation
Selectable Map Colour

POI and Information Display
Comprehensive Map / Road Information
SDAL Format DVD Map Disc by Navtech (Navigation Technology)
Most of Europe on One DVD Disc
POI and Post Code Information
Intelligent Route Search and Guidance
Destination Input and Search by Address / Postal Code / POI / History / Marked Point
Auto Reroute

Route Guidance in 8 Languages (Danish, Dutch, English, French, German, Italian, Spanish and Swedish)
Automatic Intersection Zoom

### Other Feature

Direct Postal Code Input via 10-Key Pad on Joystick Remote Control Unit

# CX-DH801N

## 8-Disc DVD Changer

DVD VIDEO

CD CD-R CD-RW

DOLBY DIGITAL dts DIGITAL OUT

ID3 TAG REMOTE IN

Remote Control

### Features

DVD Video, Video CD and CD-R / CD-RW Playback
Digital Audio Output (Optical) for Dolby Digital / dts
MP3 Playback

ID3 Tag
Vibration-Resistant Optical Deck with Anti-Shock Memory
Anti-Shock Floating Mechanism
Learning Skip

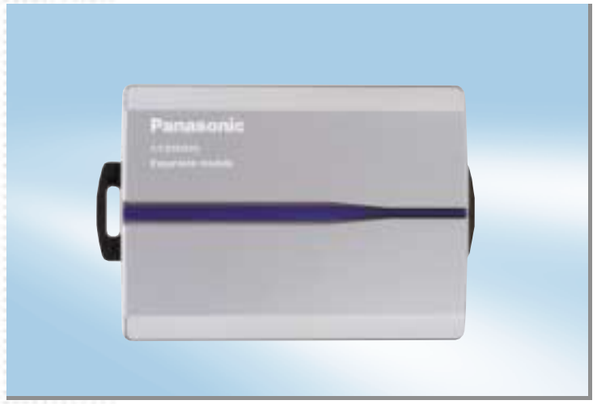
Digital Servo Optical Control
Complete with 8-Disc Magazine
Remote Control Unit





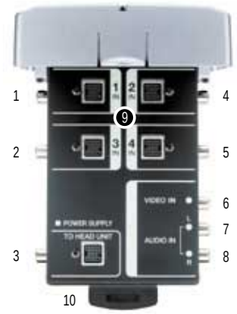
# CY-EM100N

## Expansion Module



**CA-CC30N**
DVD / CD Changer Conversion Cable

**CA-DC300N**
iPod® Connection Cable




1,2 Video Input
3 Video Output
4,5 Video Input
6 Video In
7 Audio In L
8 Audio In R
9 System-Up Connector (13 Pin Input x 4 Terminals)
10 To Head Unit

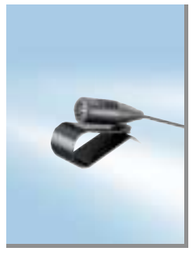
| CY-EM100N | |
|---|---|
| Power Supply | DC 12V(11-16V), Test Voltage 14.4V, Negative Ground |
| Current Consumption | Less than 2.2A |
| Dimensions (W x H x D) | 130 x 100 x 48.5mm |
| Weight | 0.4 kg |

# CY-BT100N

## Bluetooth® Unit

**Main Unit**

**PTT Switch**
( Push-to-Talk ) Switch



**Microphone**

1 PTT (Push-to-Talk) Switch Connector
To PTT Switch
2 Microphone Connector
To Microphone with Bracket
3 System-Up Connector
To Head Unit or Expansion Module

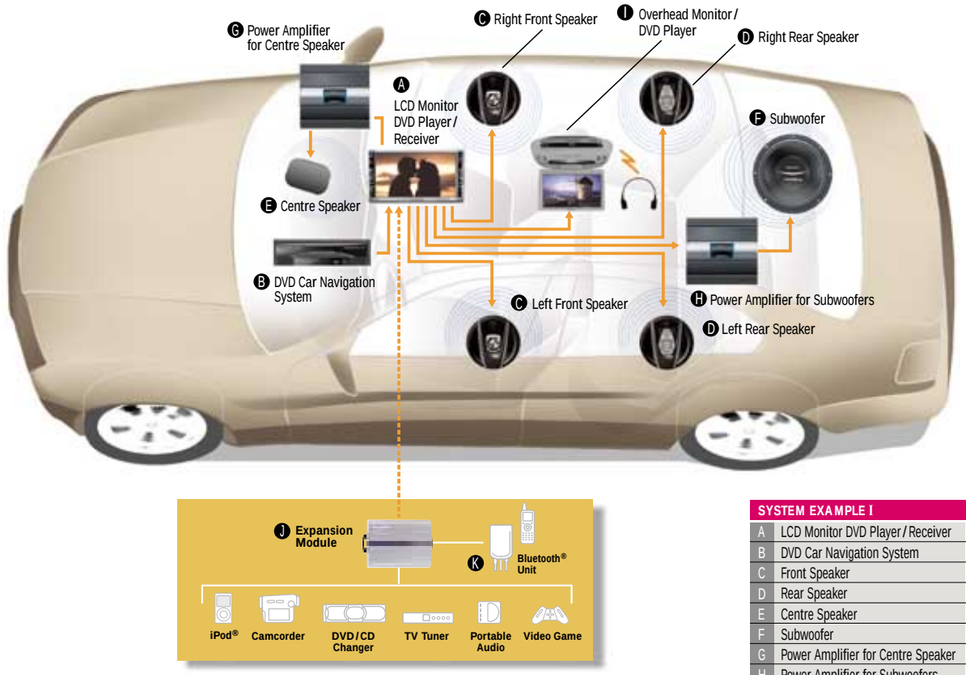
1 2 3

Status Indicator (Blue LED)
(Hang-On) / Blue LED
(Hang-Up) / Red LED

| CY-BT100N | |
|---|---|
| Power Supply | DC12V (11-16V), test voltage 14.4V, negative ground (Supplied from a head unit or a HUB ) |
| Current Consumption | Less than 1.0A |
| Communication Frequency | 2402MHz-2480MHz |
| Number of Channels | 79 channels |
| Channel Width | 1.0MHz |
| Communication Mode | Frequency hopped spread spectrum communication |
| RF Output | -1dBm ( 0.8mW ) |
| Service Area | Within 10m |
| Protection Class | IP20 |
| Applicable Bluetooth Version | Ver. 1.1 or later (Ver. 1.2 or later recommended) |
| Microphone Impedance | 600Ω |
| Dimensions (W x H x D) | 72.8 x 102 x 24mm (Excluding PTT switch and Microphone) |
| Weight | 0.5kg {1 lbs. 16oz} (Excluding PTT switch and Microphone) |

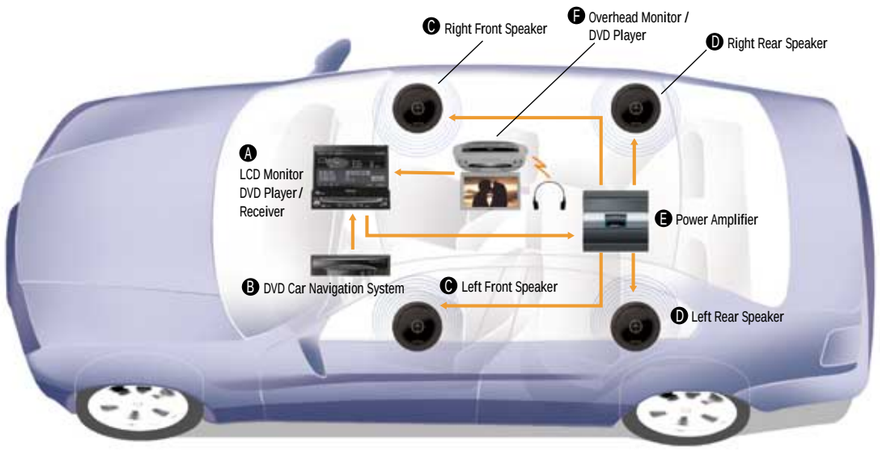
# CAR NAVIGATION SYSTEM EXAMPLES

## CAR NAVIGATION SYSTEM EXAMPLE I




| SYSTEM EXAMPLE I | | |
|---|---|---|
| A | LCD Monitor DVD Player / Receiver | CQ-VD6503N |
| B | DVD Car Navigation System | CN-DV2300N |
| C | Front Speaker | CJ-DA1323N |
| D | Rear Speaker | CJ-DA1733N |
| E | Centre Speaker | EAB-CF2 |
| F | Subwoofer | CJ-SW3003N |
| G | Power Amplifier for Centre Speaker | CY-PA4003N |
| H | Power Amplifier for Subwoofers | CY-PAD1003N |
| I | Overhead Monitor / DVD Player | CQ-VHD9401N |
| J | Expansion Module | CY-EM100N |
| K | Bluetooth® Unit | CY-BT100N |

## CAR NAVIGATION SYSTEM EXAMPLE II


C Right Front Speaker
F Overhead Monitor / DVD Player
D Right Rear Speaker
A LCD Monitor DVD Player / Receiver
E Power Amplifier
B DVD Car Navigation System
C Left Front Speaker
D Left Rear Speaker

| SYSTEM EXAMPLE II | | |
|---|---|---|
| A | LCD Monitor DVD Player / Receiver | CQ-VD7003N |
| B | DVD Car Navigation System | CN-DV2300N |
| C | Front Speaker | CJ-A1323N |
| D | Rear Speaker | CJ-A1723N |
| E | Power Amplifier | CY-PA4003N |
| F | Overhead Monitor / DVD Player | CQ-VHD9401N |



# CD CHANGER / HEAD UNIT COMPATIBILITY

| CAR STEREOS | | CD CHANGERS | | | | | | | | | | CAR STEREOS | | CD CHANGERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | Intro-duction | CX-DP15 | CX-DP50 | CX-DP400(A) | CX-DP1200 | CX-DP801/803 | CX-DP704.1 | CX-DP7040 | CX-DP98 | CX-DP1212 | CX-DP880 | Model No. | Intro-duction | CX-DP15 | CX-DP50 | CX-DP400(A) | CX-DP1200 | CX-DP801/803 | CX-DP704.1 | CX-DP9040 | CX-DP98 | CX-DP1212 | CX-DP880 |
| RD75 | Apr.'93 | 1 | OK | OK | OK | OK | OK | OK | OK | OK | OK | RD333N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD95 | Apr.'93 | 1 | OK | OK | OK | OK | OK | OK | OK | OK | OK | RD115N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RDP750 | May'93 | 1/3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | RD105N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD45 | Mar.'94 | 1/2 | 1/2 | 1/2 | 1/2 | 4 | 4 | 4 | 4 | 4 | 4 | SRX7000N | Apr.'00 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| R35 | Apr.'94 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | MR707 | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RDP650 | Sep.'94 | 1/2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | DFX751 | Apr.'00 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RD435 | Apr.'95 | 1/2 | 1/2 | 1/2 | 1/2 | 4 | 4 | 4 | 4 | 4 | 4 | DFX701 | Apr.'00 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RD445 | Apr.'95 | 1/2 | 1/2 | 1/2 | OK | 4 | 4 | 4 | 4 | 4 | 4 | DFX601 | Apr.'00 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RD555 | Jul.'95 | 1 | 1 | OK | OK | OK | OK | OK | OK | OK | OK | DFX501 | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD575 | Aug.'95 | 1 | 1 | OK | OK | OK | OK | OK | OK | OK | OK | DFX301 | Apr.'01 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD595 | Sep.'95 | 1 | 1 | OK | 1/2 | OK | OK | OK | OK | OK | OK | DFX201 | Apr.'01 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| R525 | Apr.'96 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | FX721 | Apr.'01 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RD525 | Apr.'96 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | FX421 | Apr.'01 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD535 | Apr.'96 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | FX321 | Apr.'01 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD545 | Apr.'96 | 4 | 1/2 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD324 | Apr.'01 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD565 | May'96 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | DFX802 | Apr.'02 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RDP735 | May'96 | 4 | 2 | 2 | 1/2 | 2 | 2 | 2 | 2 | 2 | 2 | DFX972 | Apr.'02 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| R115 | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX602 | Apr.'02 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| R805 | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX572 | Apr.'02 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 |
| RD815 | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP472 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD825wi | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX202 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX45 | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP162 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX65 | Apr.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP112 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RDP855wi | May'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP152 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DPG55 | May'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP102 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD811 | Jun.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP142 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX85 | Jun.'97 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD152 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX555 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD142 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX355 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD132 | Apr.'02 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RDP965 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | HX2083N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX95 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | HX1083N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX75 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX983N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX55 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | HR1003N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX35 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX903N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RDP925 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX883N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD915 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX683N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD905 | Apr.'98 | 4 | 1/2 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP383N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX88 | Apr.'98 | 4 | 4 | 1/2 | 4 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX223N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX77 | Apr.'98 | 4 | 4 | 1/2 | 1/2 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX213N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX66 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | DFX203N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX44 | Apr.'98 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP153N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX44G | Apr.'98 | 4 | 1/2 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP143N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD325 | Apr.'98 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RDP133N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| CRD115 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD243N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| RD105 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | RD153N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX888 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | RD143N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX777 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | RD133N | Apr.'03 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX666 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C9800N | May.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX444 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C9700N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX444G | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C8300N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| MR555 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | C8100N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| MR335 | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 2 | 1/2 | 1/2 | 1/2 | 1/2 | C7300N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| MR505N | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1 | 1 | 1/2 | 1/2 | 1/2 | C5400N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| MR303N | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1 | 1 | 1/2 | 1/2 | 1/2 | C5300N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DRX900N | Apr.'99 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 | C5100N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX800N | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C3300N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX700N | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C1400N | Apr.'04 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX600N | Apr.'99 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C9901N | Apr.'05 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX400N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C9701N | Apr.'05 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| DFX100N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C8301N | Apr.'05 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FRX920N | Apr.'00 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1/2 | 1 | C7301N | Apr.'05 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX820N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C8803N | Apr.'06 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX720N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C8403N | Apr.'06 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX620N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C7703N | Apr.'06 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX420N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C7303N | Apr.'06 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| FX220N | Apr.'00 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | C5303N | Apr.'06 | 4 | 4 | 1/2 | 4 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |

Key to table: OK) completely compatible; 1) no title input capability; 2) no dual changer capability; 3) direct access to discs 1-6 only (no disc up/down function); 4) incompatible

## *Power to Spare*

***Simply awesome! Every note, every nuance comes through loud and clear, with the authority of high-output amps. For the ultimate in sound, only the ultimate in amplifier technology will do.***

**Energize your ride with the thunderous performance of Panasonic's lineup of 3 new high-power amplifiers – designed to drive your total system with power to spare. Whether you are searching for the incredible efficiency and performance of the bleeding-edge in digital amplification or the raw heart-racing muscle of analogue amps, just look for the blue illumination of power.**

### DIGITAL - Cool, Efficient Power for Subwoofers

For audiophiles who want a system that awes with the power of its bass, Panasonic has developed a high-power monaural amp for your subwoofer. Boasting an impressive 1100W of output, this new mono-channel digital amplifier not only realizes digital end-to-end performance but also delivers it with high digital efficiency and with little heat generation. Because massive heat sinks are unnecessary, the entire amp is relatively compact, enabling you to make the most of limited installation space.

## CY-PAD1003N Mono (1100W) Digital Amplifier

DIGITAL MAX 1100W

Maximum 1100W x 1 Output Power
Continuous Rated Power 350W (20Hz~20kHz, THD≦1%)
Power MOSFET Switching Transistors
2Ω Load Capability (High Current)
Remote Turn-On Circuit
Bass Extender, 45Hz, 0~ +15dB
2-Channel Non-Fade Line Output (RCA)
Gold-Plated RCA Connectors and Speaker Terminals
Variable Cutoff Frequencies : 50Hz-250Hz for Subwoofer
Easy Level Adjustment After Installation (200mV-6V)
Line-Out for Another Power Amplifier
Thermal Shutdown Protection Circuit



### ANALOGUE – Two New Stereo Power Stations Bridge the Power Gap

The debut of two new high-power stereo amps offers power users unprecedented performance. The incorporation of high-efficiency power circuits with a high conversion efficiency ratio gives users the best of all worlds: efficient power consumption, minimal heat generation and massive power to drive your system. Both the new 2ch and 4ch analogue models are bridgeable, giving you the flexibility to build a system that can drive your speakers with maximum power. Characterized by clarity and crispness, these amps incorporate MOSFET devices to keep switching distortion to a minimum while delivering audio with high-fidelity.

The 2-Channel model (600W x 2) can also serves as a mono-channel (1200W). For even more freedom and power, choose the 4-Channel model (250W x 4) and use it as a 3-Channel source (250W x 2 +500W x 1) or a 2-Channel amp (500W x 2).

## CY-PA2003N 2ch (1200W) Analogue Amplifier

MAX 1200W

Total 1200W Maximum Output Power (600W x 2)
Continuous Rated Power 400W (200W x 2ch into 4Ω, 20Hz~20kHz, THD≦1%)
Typical Power in Bridged Mode 380W x 1 (20Hz~20kHz, THD≦1%)
Mixed Mode Operation
Power MOSFET Switching Transistors
2Ω Load Capability (High Current)
Remote Turn-On Circuit
Bass Extender, 45Hz, 0~ +15dB
2-Channel Non-Fade Line Output (RCA)
Gold-Plated RCA Connectors and Speaker Terminals
Easy Level Adjustment After Installation (200mV-6V)
Adjustable Frequency, High Pass / Low Pass Electronic Crossover
Line-Out for Another Power Amplifier
Thermal Shutdown Protection Circuit

## CY-PA4003N 4ch (1000W) Analogue Amplifier

MAX 1000W

Total 1000W Maximum Output Power (250W x 4)
Continuous Rated Power 250W (64W x 4ch into 4Ω, 20Hz~20kHz, THD≦1%)
Typical Power in Bridged Mode 225W x 2 (20Hz~20kHz, THD≦1%)
Power MOSFET Switching Transistors
2Ω Load Capability (High Current)
Remote Turn-On Circuit
Bass Extender, 45Hz, 0~ +15dB
2-Channel Non-Fade Line Output (RCA)
Independent Front / Rear Gain Control
Independent Front / Rear Bass Extender Gain Control
Gold-Plated RCA Connectors and Speaker Terminals
Easy Level Adjustment After Installation (200mV-6V)
Line-Out for Another Power Amplifier
Thermal Shutdown Protection Circuit

CY-PA4003N

## *Music to Your Ears!*

***Speakers - the final and most important link in the audio chain! Powerful to handle extended dynamic range of "Full Digital" and sensitive to express the most delicate nuances, the new voice of Panasonic has arrived.***



**When it comes to reproducing quality audio, the world's largest speaker manufacturer makes it perfectly clear with innovative "high-performance" material, new cone technology, and the distinctive arc styling. Delivering rich bass, solid vocals and scintillating highs with exceptional clarity, Panasonic speakers translate the power and performance of our end-to-end digital signal into an unforgettable audio experience.**

# Hybrid Aramid Speaker Cone – Responsive in So Many Ways

New advances present new challenges! The high power of our digital amplifiers demands new speaker solutions to tap their full potential. Our R&D department has responded with a revolutionary hybrid Aramid speaker cone.

### Aramid, the Super Fiber

Used in a variety of applications from aerospace to bullet proof body armor, Aramid is a remarkable synthetic fiber with amazing strength and other useful properties.To tap these qualities, Panasonic has developed original technology to uniformly mix long 3mm Aramid fibers in resin. The result is a true hybrid cone material for fabrication of even thinner and lighter diaphragms with high rigidity and uniform characteristics throughout.

### Higher Internal Loss for Crystal Clarity

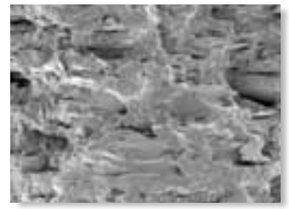
The advent of the Aramid hybrid has brought us closer than ever to realizing the ideal speaker cone. Not only does this new material greatly improve rupture resistance, it also allows us to achieve a high internal loss without sacrificing gains in propagation velocity. Thanks to the superior internal loss characteristics (twice that of our previous models), the clarity is astounding, eliminating the muddy sound that plagues conventional speakers.

### Light and Super Thin for "Fast" Response

The conventional practice of coating, layering or sandwiching fibers provides reinforcement at the expense of weight and thinness. With our innovative mixing technology, we can fabricate an extremely lightweight cone that is the thinnest (0.2~0.3mm) in the industry yet still enjoy the benefits of a high degree of stiffness and excellent shape retention. For the listener, this means a speaker that delivers incredibly fast and smooth response across an extended frequency range, but is durable enough to handle the awesome power of our digital amps. From deep bass to scintillating highs, the quality of the sound imaging is clear and natural.

Performance Comparison (Acoustical Characteristics)

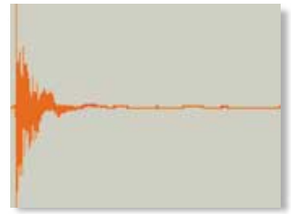
Conventional Cone (Resin/Inorganic Filler)



Random polymer orientation in metallic mold of a conventional mica-polypropylene cone.

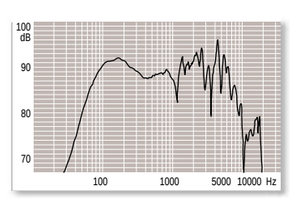
New Hybrid Aramid Speaker Cone

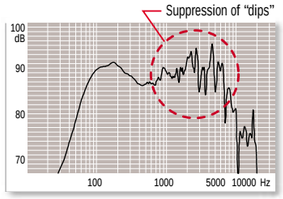
Directionally oriented fibers in the new hybrid Aramid speaker produces better internal loss characteristics while maintaining sound propagation.



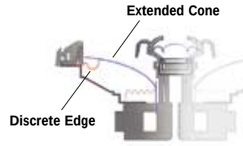
Conventional Cone (Resin/Inorganic Filler)
Low internal loss → Muddy sound

New Hybrid Aramid Speaker Cone (Resin/Long Fibers)
Improved (higher) internal loss → Clarity of sound




By adopting a resin-fiber hybrid, acoustical characteristics are improved.




### Discrete Edge Design

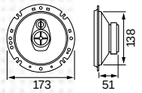
By locating the rolled edge of the surround speaker inside and below the outer perimeter of the cone, Panasonic realizes an extended cone and wider effective diaphragm area for improved low frequency response. Edge distortion, which is normally caused by edge radiation, is also reduced.

## CJ-DA1733N

### 16.5cm Coaxial 3-Way Speakers

Aramid Fiber Hybrid Thin Diaphragm
Holographic Surface Design
Elastomer Coated Cloth Edge of Discrete Edge Design
Titanium Dome Tweeters
High Linearity Suspension

230W

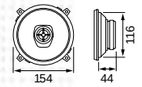


## CJ-DA1323N

### 13cm Coaxial 2-Way Speakers

Aramid Fiber Hybrid Thin Diaphragm
Holographic Surface Design
Elastomer Coated Cloth Edge of Discrete Edge Design
Titanium Dome Tweeters
High Linearity Suspension

150W

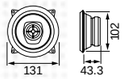


## CJ-DA1023N

### 10cm Coaxial 2-Way Speakers

Aramid Fiber Hybrid Thin Diaphragm
Holographic Surface Design
Elastomer Coated Cloth Edge of Discrete Edge Design
Titanium Dome Tweeters
High Linearity Suspension

100W

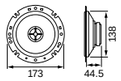


| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-DA1733N | 28Hz–50kHz | 91dB/W/m |
| CJ-DA1323N | 35Hz–50kHz | 90dB/W/m |
| CJ-DA1023N | 45Hz–50kHz | 89dB/W/m |

## CJ-A1723N

160W

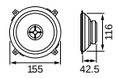
### 16.5cm Coaxial 2-Way Speakers



## CJ-A1323N

120W

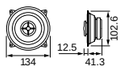
### 13cm Coaxial 2-Way Speakers



## CJ-A1023N

80W

### 10cm Coaxial 2-Way Speakers



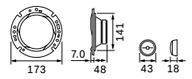

**Common Features for A-Series**
Shallow Mounting Depth
(A1723N: 4.4cm)
(A1323N: 4.5cm)
(A1023N: 4.3cm)
High Rigidity Polypropylene Injection Cone

| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-A1723N | 35Hz–22kHz | 92dB/W/m |
| CJ-A1323N | 40Hz–22kHz | 91dB/W/m |
| CJ-A1023N | 45Hz–22kHz | 90dB/W/m |

## CJ-DS173N

150W

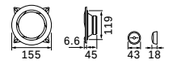
### 16.5cm Door/Rear-Deck-Mounted Speakers with Separate Tweeters



## CJ-DS133N

140W

### 13cm Door/Rear-Deck-Mounted Speakers with Separate Tweeters



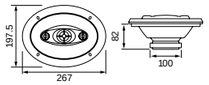

**Common Features for DS-Series**
High-Quality Sound Reproduction
Surface/Flush-Mount, Easy-to-Install Dome Tweeters
SSD (Symmetric Surround Design) Foamed Rubber Edges
Pearl- Mica-Coated Polypropylene Injection Cones for Crisp, Clear Sound

| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-DS173N | 30Hz–50kHz | 90dB/W/m |
| CJ-DS133N | 40Hz–50kHz | 89dB/W/m |

## CJ-DA6943N

320W

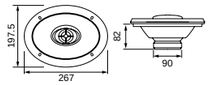
**16 x 23cm 4-Way Speakers**



## CJ-DA6923N

280W

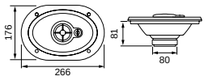
**16 x 23cm 2-Way Speakers**



## CJ-A6933N

250W

**16 x 23cm 3-Way Speakers**




### Common Features for DA-Series

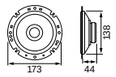
Aramid Fiber Hybrid Thin Diaphragm
Elastomer Coated Cloth Edge of Discrete Edge Design
High Rigidity Polypropylene Injection Cone
Titanium Dome Tweeters
High Linearity Suspension

| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-DA6943N | 25Hz–50kHz | 93dB/W/m |
| CJ-DA6923N | 25Hz–50kHz | 93dB/W/m |
| CJ-A6933N | 28Hz–50kHz | 93dB/W/m |

## CJ-S1703N

120W

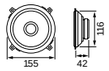
**16.5cm Dual Cone Speakers**



## CJ-S1303N

100W

**13cm Dual Cone Speakers**



## CJ-S1003N

80W

**10cm Dual Cone Speakers**

### Common Features for S-Series

Shallow Mounting Depth
(S1703N: 4.6cm)
(S1303N: 4.3cm)
(S1003N: 4.4cm)
Water-Resistant Polypropylene Woofer Cones

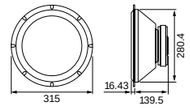
| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-S1703N | 35Hz–20kHz | 92dB/W/m |
| CJ-S1303N | 40Hz–20kHz | 91dB/W/m |
| CJ-S1003N | 45Hz–20kHz | 90dB/W/m |

## CJ-SW3003N

1400W

**30cm Subwoofer**

High Power Handling with Minimal Distortion
Wide Rubber Edge
High Rigidity Mica/Polypropylene Composite Oven Cone and Centre Cap
Large Dual Dampers
4-Layer Voice Coil
Screw-Type Terminals

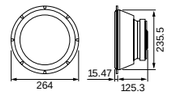


## CJ-SW2503N

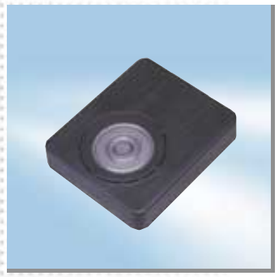
1300W

**25cm Subwoofer**

High Power Handling with Minimal Distortion
Wide Rubber Edge
High Rigidity Mica/Polypropylene Composite Oven Cone and Centre Cap
Large Dual Dampers
4-Layer Voice Coil
Screw-Type Terminals




| | Frequency Range | SPL(1m) |
|---|---|---|
| CJ-SW3003N | 18Hz–3kHz | 89dB/W/m |
| CJ-SW2503N | 22Hz–3kHz | 89dB/W/m |

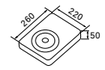


## CJ-BL150

150W

**150W Active Subwoofer**

Built-In High Power PWM (Pulse Width Modulation) Amplifier
16cm Thin-Type / Heat Radiation Diaphragm Driver
AFB (Acoustic Feedback) for Improved Speaker Response
Compact and Thin, Space-Saving Size
ISO Connector for Easy Installation



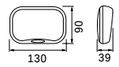

| | Frequency Range |
|---|---|
| CJ-BL150 | 40Hz–200Hz |

## EAB-CF2

45W

**8cm Centre Speaker**

Compact, Thin Bass-Reflex Box
Easy Mounting
Wide-Range, Thin Convex Cone




| | Frequency Range | SPL(1m) |
|---|---|---|
| EAB-CF2 | 400Hz–20kHz | 82dB/W/m |

# HEAD UNIT FEATURE COMPARISON CHART

## CD PLAYER / RECEIVERS

| | CQ-C8803N | CQ-C8403N | CQ-C7703N | CQ-C7303N | CQ-C5303N | CQ-C3503N | CQ-C3303N | CQ-C1323N | CQ-C1313N | CQ-C1303N | CQ-C1312N | CQ-C1123N | CQ-C1113N | CQ-C1103N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AUDIO SECTION** | | | | | | | | | | | | | | |
| High Power | 70W x 4 | 50W x 4 | 70W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 45W x 4 | 45W x 4 | 45W x 4 |
| Digital Amp | • | | • | | | | | | | | | | | |
| MOSFET Output Stage | | • | | • | • | | | | | | | | | |
| Sound Quality | SQ 9 | SQ 7 | SQ 7 | SQ 7 | SQ 3 | SQ | SQ | SQ | SQ | SQ | SQ | SQ | SQ | SQ |
| SRS CS Automotive | • | | | | | | | | | | | | | |
| SRS WOW | | • | • | • | | | | | | | | | | |
| SRS TruBass | | | | | • | • | | | | | | | | |
| Crossover | • | • | • | • | | | | | | | | | | |
| SBC-SW | • | • | • | • | | | | | | | | | | |
| Mute/Attenuator | M/A | M/A | M/A | M/A | M/A | M/A | M/A | M | M | M | M | M | M | M |
| Separate Bass/Treble, Balance Fader | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Preamp Out(s) : Front/Rear | F/R | F/R | F/R | F/R | F/R | F/R | R | R | R | R | R | | | |
| Subwoofer Out | • | • | • | • | | | | | | | | | | |
| **TUNER SECTION** | | | | | | | | | | | | | | |
| Radio DSP with FM Transmitter Mode | • | | | | | | | | | | | | | |
| Number of Presets : FM/MW(LW) | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 | 18/6 |
| Selectable AF Sensitivity | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Auto Preset Memory with Scan | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Seek Tuning with DX/Local Switch | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **CD PLAYER SECTION** | | | | | | | | | | | | | | |
| CD-R/CD-RW Playback | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| WMA/MP3 Playback | W/M | W/M | W/M | W/M | W/M | M | M | M | M | M | W/M | | | |
| ID3 Tag | • | • | • | • | • | • | • | • | • | • | • | | | |
| File Tree Display | • | • | • | • | | | | | | | | | | |
| CD Text Display | • | • | • | • | • | • | • | • | • | • | • | | | |
| 3-Beam Hologram Pickup | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Scan, Search, Repeat and Random Play | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Pause | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **CHANGER CONTROL SECTION** | | | | | | | | | | | | | | |
| CD Changer Control | • | • | • | • | • | | | | | | | | | |
| DVD Changer Control | • | • | • | • | | | | | | | | | | |
| **OTHER FEATURES** | | | | | | | | | | | | | | |
| Motorized Display Face | • | • | • | • | • | | | | | | | | | |
| Display | 4096 Colour OEL | 4096 Colour OEL | 3DDM | 3DDM | | | | | | | | | | |
| Customize | • | • | • | • | | | | | | | | | | |
| LCD Illumination Colour | Colour OEL | Colour OEL | Variable | Variable | Black | Black | Black | Blue | Black | Black | Black | Blue | Black | Black |
| Button Illumination Colour | Blue | Blue | Variable | Variable | Red/Green | Red/Green | Red | Red | Red | Green | Red | Red | Red | Green |
| Level Meters | | | | | | • | • | | | | | | | |
| Spectrum Analyser | | | • | • | • | | | | | | | | | |
| AUX Input | • | • | • | • | • | • Front | • Front | • Front | • Front | • Front | | | | |
| Automatic Antenna Relay Control | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Full-Face Design | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Face Colour | Chrome Black | Chrome Black | Chrome Black | Chrome Black | Chrome Black | Silver | Silver | Black | Black | Black | Black | Black | Black | Black |
| Removable Faceplate | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Flashing Warning Light | • | • | • | • | • | | | | | | | | | |
| Remote Control Unit | • | • | • | • | • | • | Option | Option | Option | Option | | | | |
| ISO Connector | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Expansion Module Ready | • | • | • | • | • | | | | | | | | | |
| iPod® Ready | • | • | • | • | • | | | | | | | | | |
| Bluetooth® Ready | • | • | • | • | • | | | | | | | | | |

## DVD PLAYERS

| | CQ-VD6503N | CQ-VD7003N |
|---|---|---|
| **DISPLAY UNIT** | | |
| Liquid Crystal Panel | 6.5" Widescreen | 7" Widescreen |
| Screen Dimensions (W x H) | 143 x 79, 177 (Diag.)mm | 154 x 87, 177 (Diag.)mm |
| Number of Pixels | 280,800 (234 Vert. x 400 Hor. x 3) | 336,960 (234 Vert. x 480 Hor. x 3) |
| Display Method | Transparent Colour Filter Format | Transparent Colour Filter Format |
| Drive Method | TFT Active Matrix Format | TFT Active Matrix Format |
| Light Source | L-Shaped CFL | L-Shaped CFL |
| **DVD SECTION** | | |
| Disc Played | DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), CD-DA (12cm), CD-R/RW (12cm), MP3/WMA (CD-R/RW), Video CD (12cm) | DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), CD-DA (12cm), CD-R/RW (12cm), MP3/WMA (CD-R/RW), Video CD (12cm) |
| Video Output Signal (Composite) | 1.0Vp-p (75Ω) | 1.0Vp-p (75Ω) |
| Video Input Signal (Composite) | 1.0Vp-p (75Ω) | 1.0Vp-p (75Ω) |
| Signal System | PAL / NTSC | PAL / NTSC |
| **AUDIO SECTION** | | |
| Power Output (Max.) | 50W x 4 | 50W x 4 |
| (DIN45324, at 4Ω) | 18W x 4 | 18W x 4 |
| Speaker Impedance | 4Ω | 4Ω |
| Preamp Output Level/Impedance | 2V/600Ω | 2V/600Ω |
| Subout Voltage/Impedance | 2V/600Ω | 2V/600Ω |
| Audio Output Sensitivity | 2.0Vrms/600Ω | 2.0Vrms/600Ω |
| Audio Input Sensitivity | 2.0Vrms | 2.0Vrms |
| Digital Audio Output | - | - |
| Frequency Response | 20Hz - 20kHz (DVD) | 20Hz - 20kHz (DVD) |
| S/N Ratio (IHA,A) | 78dB | 78dB |
| **TUNER SECTION** | | |
| FM Frequency Range | 87.5 MHz–108MHz | 87.5 MHz–108MHz |
| FM Usable Sensitivity (S/N 20dB) | 8dB/μV | 8dB/μV |
| FM Stereo Separation (1kHz) | 40dB | 40dB |
| MW Frequency Range | 531kHz–1,602kHz | 531kHz–1,602kHz |
| MW Usable Sensitivity | 25dB/μV | 25dB/μV |
| LW Frequency Range | 153kHz–279kHz | 153kHz–279kHz |
| LW Usable Sensitivity (S/N 20dB) | 32dB/μV | 32dB/μV |
| **GENERAL** | | |
| Input Level/Impedance | Max.2V/10kΩ | Max.2V/10kΩ |
| Dimensions (W x H x D) | 178 x 100 x 165mm | 178 x 50 x 165mm |
| Weight | 1.8kg | 2.4kg |
| Power Source (DC) | 12V (11V - 16V) | 12V (11V - 16V) |
| Current Consumption | Less than 10A | Less than 10A |

## OVERHEAD MONITOR / PLAYER

| | CQ-VHD9401N |
|---|---|
| **DISPLAY UNIT** | |
| Liquid Crystal Panel | 9" Widescreen |
| Screen Dimensions (W x H) | 198 x 112, 227 (Diag.)mm |
| Number of Pixels | 336,960 (234 Vert. x 480 Hor. x 3) |
| Display Method | RGB Vertical Stripe |
| Drive Method | a-Si TFT Active Matrix Format |
| Light Source | Straight Shape CCFL Edgelight (Single Lamp) |
| **DVD SECTION** | |
| Disc Played | DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), DVD-R/RW, CD-DA (12cm), CD-R/RW (12cm), MP3 (CD-R/RW), Video CD (12cm) |
| Video Output Signal (Composite) | 1.0Vp-p (75Ω) |
| Video Input Signal (Composite) | 1.0Vp-p (75Ω) |
| Signal System | PAL / NTSC |
| **AUDIO SECTION** | |
| Preamp Output Level/Impedance | 1.8V/600Ω |
| Audio Output Sensitivity | 1.8Vrms (CD) |
| Audio Input Sensitivity | 2.0Vrms (VTR) |
| Digital Audio Output | Optical |
| Frequency Response | 20Hz - 44kHz (DVD)/20Hz - 20kHz (CD) |
| S/N Ratio (IHA,A) | 95dB |
| **GENERAL** | |
| Input Level/Impedance | Max.2V/10kΩ |
| Dimensions (W x H x D) | 375 x 250 x 56mm |
| Weight | 3.0kg |
| Power Source (DC) | 12V (11V - 16V) |
| Current Consumption | Less than 2.0A |

## DVD CAR NAVIGATION

| | CN-DV2300N |
|---|---|
| **MAIN UNIT** | |
| Reception Frequency | 1575.42MHz |
| Reception Sensitivity | -130dBm |
| Reception Method | Parallel 8 Channels |
| Receiving Code | C/A Code |
| Channel System | Multi-Channel |
| Channels | 8 |
| GPS Satellites Received | 8 Max. |
| Guide Map | DVD SDAL Format |
| **PICTURE OUTPUT** | |
| RGB | Navigation Screen |
| NTSC | 1.0Vp-p, 75Ω, RCA Pin Jack (Navigation Screen) |
| Analogue Audio Output | Monaural 1ch 1.5Vrms (1kHz, 0dB) |
| **GENERAL** | |
| Power Supply | 12V DC, Negative Ground |
| Current Consumption | Less than 2.5A |
| Dimensions (W x H x D) | 178 x 50 x 170mm |
| Weight | 2.0kg |
| **GPS ANTENNA** | |
| Type | Microstrip Planer |
| Dimensions (W x H x D) | 42 x 14 x 50mm |
| **REMOTE CONTROL** | |
| Dimensions (W x H x D) | 41 x 40 x 155mm |
| **INFRARED RECEIVER** | |
| Dimensions (W x H x D) | 34 x 17 x 22mm |

# SPECIFICATIONS

## CD PLAYER / RECEIVERS

| | CQ-C8803N | CQ-C8403N | CQ-C7703N | CQ-C7303N | CQ-C5303N | CQ-C3503N | | CQ-C3303N | CQ-C1323N | CQ-C1313N | CQ-C1303N | CQ-C1312N | CQ-C1123N | CQ-C1113N | CQ-C1103N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPLIFIER SECTION | | | | | | | | | | | | | | | |
| Output Power (Max.) | 70W x 4 | 50W x 4 | 70W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 50W x 4 | 45W x 4 | 45W x 4 | 45W x 4 |
| (DIN 45324 at 14.4V) | 33W x 4 | 22W x 4 | 22W x 4 | 22W x 4 | 22W x 4 | 22W x 4 | | 22W x 4 | 22W x 4 | 22W x 4 | 20W x 4 | 22W x 4 | 20W x 4 | 20W x 4 | 20W x 4 |
| Speaker Impedance | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4 – 8Ω | | 4 – 8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω | 4–8Ω |
| Preamp Output Level / Impedance (CD Changer Mode) | 5V / 60Ω | 5V / 60Ω | 2.5V / 200Ω | 2.5V / 200Ω | 2.5V / 200Ω | 2.5V / 200Ω | | 2.5V / 200Ω | 2.5V / 200Ω | 2.5V / 200Ω | 2.5V / 200Ω | 2.5V / 200Ω | - | - | - |
| Subwoofer Output Level / Impedance | 5V / 60Ω | 5V / 60Ω | 2.5V / 200Ω | 2.5V / 200Ω | - | - | | - | - | - | - | - | - | - | - |
| LPF Frequency | Off / 60–160Hz. 5Hz Step | 80 / 120Hz / 160Hz | 80 / 120Hz / 160Hz | 80 / 120Hz / 160Hz | - | - | | - | - | - | - | - | - | - | - |
| HPF Frequency | Off / 90–225Hz. 5Hz Step | OFF / 90 / 135 / 180 / 225Hz | OFF / 90 / 135 / 180 / 225Hz | OFF / 90 / 135 / 180 / 225Hz | - | - | | - | - | - | - | - | - | - | - |
| CD PLAYER SECTION | | | | | | | | | | | | | | | |
| Frequency Response (±1dB) | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz | 20Hz–20kHz |
| S/N Ratio | 106dB | 96dB | 96dB | 96dB | 96dB | 93dB | | 96dB | 96dB | 96dB | 96dB | 96dB | 96dB | 96dB | 96dB |
| THD (1kHz) | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| Channel Separation (1kHz) (Preout) | 86dB | 75dB | 75dB | 75dB | 75dB | 75dB | | 75dB | 75dB | 75dB | 75dB | 75dB | - | - | - |
| TUNER SECTION | | | | | | | | | | | | | | | |
| FM Frequency Range | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz | 87.5MHz–108MHz |
| FM Usable Sensitivity (75 Ω S/N 30dB) | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV | 6dB / µV |
| FM S/N Ratio (Mono) | 62dB | 62dB | 62dB | 62dB | 62dB | 62dB | | 62dB | 62dB | 62dB | 62dB | 62dB | 62dB | 62dB | 62dB |
| FM Stereo Separation (1kHz) | 40dB | 35dB | 35dB | 35dB | 35dB | 35dB | | 35dB | 35dB | 35dB | 35dB | 35dB | 35dB | 35dB | 35dB |
| MW Frequency Range | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz | 531kHz–1602kHz |
| MW Usable Sensitivity (S/N 20dB) | 25dB / µV | 28dB / µV | 28dB / µV | 28dB / µV | 27dB / µV | 27dB / µV | | 27dB / µV | 28dB / µV | 28dB / µV | 28dB / µV | 28dB / µV | 28dB / µV | 28dB / µV | 28dB / µV |
| LW Frequency Range | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz | 153kHz–279kHz |
| LW Usable Sensitivity (S/N 20dB) | 25dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV | 32dB / µV |
| GENERAL | | | | | | | | | | | | | | | |
| Power Source (DC) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V – 16V) | | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) | 12V (11V–16V) |
| Current Consumption | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.2A (0.5W) | Less than 2.1A (0.5W) | Less than 2.1A (0.5W) | | Less than 2.1A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) | Less than 2.5A (0.5W) |
| Dimensions (W x H x D) | 178 x 50 x 155mm | 178 x 50 x 155mm | 178 x 50 x 155mm | 178 x 50 x 155mm | 178 x 50 x 155mm | 178 x 50 x 160mm | | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm | 178 x 50 x 160mm |

## COLOUR LCD MONITOR

| | CY-VM7203N |
|---|---|
| DISPLAY UNIT | |
| Liquid Crystal Panel | 7" Widescreen |
| Screen Dimension (W x H) | 154 x 87, 163 (Diag.)mm |
| Number of Pixels | 336,960 (234 Vert. x 480 Hor. x 3) |
| Display Method | Transparent Colour Filter Format |
| Drive Method | TFT Active Matrix Format |
| Light Source | L - Shaped CFL |
| Sound Output | 0.7W |
| Speaker | 3.5cm x 2.0cm Square Type |
| AV Input Level (1, 2) | Video (1Vp-p, 75Ω), Audio (2V rms) |
| AV Output Level | Video (1Vp-p, 75Ω), Audio (2V rms) |
| Power Source(DC) | 12V (11V-16V),<br>14.4V Test Voltage, Negative Ground |
| Current Consumption | Less than 1.0A |
| Dimensions (W x H x D) | 181 x 131 x 34mm |
| Weight | 0.57kg |

## AMPLIFIERS

| | | CY-PAD1003N | CY-PA2003N | CY-PA4003N |
|---|---|---|---|---|
| Power Output | 4ch drive: | - | - | 64W x 4 |
| | 3ch drvie: | - | - | 64W x 2, 225W x 1 |
| | 2ch drive: | - | 200W x 2 | 225W x 2 |
| | 1ch drive: | 350W x 1 | 380W x 1 | - |
| Max. Power Output | | 1100W | Total 1200W | Total 1000W |
| THD (1kHz) | | 0.02% | 0.02% | 0.02% |
| S/N Ratio (IHF, A) | | 100dB | 95dB | 92dB |
| Frequency Response (-3dB) | | 10Hz-30kHz | 10Hz-30kHz | 10Hz-30kHz |
| Crossover Frequencies | | 50Hz-250kHz | 50Hz-250kHz | 50Hz-250kHz |
| Bass Boost | | 0dB ~ 15dB | 0dB ~ 15dB | 0dB ~ 15dB |
| Input Level Adjustment | | 200mV-6V | 200mV-6V | 200mV-6V |
| Speaker Impedance | | 4Ω | 4Ω | 4Ω |
| Current Consumption | | 24A (350W x 1, 4Ω) | 24A (200W x 2, 4Ω) | 24A (64W x 4, 4Ω) |
| Dimensions(W x H x D) | | 28.0 x 6.2 x 30.3cm | 28.0 x 6.2 x 33.3cm | 28.0 x 6.2 x 33.3cm |

## SPEAKERS

| | CJ-DA1733N | CJ-DA1323N | CJ-DA1023N | CJ-DS173N | CJ-DS133N | CJ-A1723N | CJ-A1323N |
|---|---|---|---|---|---|---|---|
| Type | Coaxial 3-Way | Coaxial 2-Way | Coaxial 2-Way | 2-Way | 2-Way | Coaxial 2-Way | Coaxial 2-Way |
| Size | 16.5cm<br>4cm (Tweeter) x 1<br>1.7cm (Tweeter) x 1 | 13cm<br>1.7cm (Tweeter) | 10cm<br>1.7cm (Tweeter) | 16.5cm<br>3.5cm (Tweeter) | 13cm<br>3.5cm (Tweeter) | 16.5cm<br>4cm (Tweeter) | 13cm<br>4cm (Tweeter) |
| Peak Input Power | 230W | 150W | 100W | 150W | 140W | 160W | 120W |
| Frequency Range | 28Hz-50kHz | 35Hz-50kHz | 45Hz-50kHz | 30Hz-50kHz | 40Hz-50kHz | 35Hz-22kHz | 40Hz-22kHz |
| SPL (1m) | 91dB / W/m | 90dB / W/m | 89dB / W/m | 90dB / W/m | 89dB / W/m | 92dB / W/m | 91dB / W/m |
| Impedance | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω |
| Magnet Weight | 284g | 181g | 181g | 226g | 226g | 153g | 153g |
| Built-In Depth | 51mm | 44mm | 43.3mm | 48mm | 45mm | 44.5mm | 42.5mm |

## SPEAKERS

| | CJ-A1023N | CJ-DA6943N | CJ-DA6923N | CJ-A6933N | CJ-S1703N | CJ-S1303N | CJ-S1003N |
|---|---|---|---|---|---|---|---|
| Type | Coaxial 2-Way | 4-Way | 2-Way | 3-Way | Dual Cone | Dual Cone | Dual Cone |
| Size | 10cm<br>4cm (Tweeter) | 16 x 23cm<br>3.5cm (Tweeter) x 1<br>1.7cm (Tweeter) x 2 | 16 x 23cm<br>3.5cm (Tweeter) | 16 x 23cm<br>6cm (Tweeter) x 1<br>1.7cm (Tweeter) x 1 | 16.5cm | 13cm | 10cm |
| Peak Input Power | 80W | 320W | 280W | 250W | 120W | 100W | 80W |
| Frequency Range | 45Hz–22kHz | 25Hz–50kHz | 25Hz–50kHz | 28Hz–50kHz | 35Hz–20kHz | 40Hz–20kHz | 45Hz–20kHz |
| SPL (1m) | 90dB / W/m | 93dB / W/m | 93dB / W/m | 93dB / W/m | 92dB / W/m | 91dB / W/m | 90dB / W/m |
| Impedance | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω | 4Ω |
| Magnet Weight | 139g | 442g | 383g | 284g | 139g | 139g | 91g |
| Built-In Depth | 41.3mm | 82mm | 82mm | 81mm | 44mm | 42mm | 41.3mm |

## SPEAKER

| | EAB-CF2 |
|---|---|
| Type | Centre |
| Size | 8cm |
| Peak Input Power | 45W |
| Frequency Range | 400Hz–20kHz |
| SPL (1m) | 82dB / W/m |
| Impedance | 4Ω |
| Magnet Weight | – |
| Built-In Depth | – |

## SUBWOOFERS

| CJ-SW3003N | CJ-SW2503N |
|---|---|
| Subwoofer | Subwoofer |
| 30cm | 25cm |
| 1400W | 1300W |
| 18Hz–3kHz | 22Hz–3kHz |
| 89dB / W/m | 89dB / W/m |
| 4Ω | 4Ω |
| 1.276kg | 1.276kg |
| 139.5mm | 125.3mm |

## ACTIVE SUBWOOFER

| | CJ-BL150 |
|---|---|
| SPEAKER SECTION | |
| Size | 16cm |
| Frequency Range | 40Hz–200Hz |
| AMPLIFIER SECTION | |
| Output Power | 80W (Continuous) |
| Maximum Output Power | 150W |
| Dimensions (W x H x D) | 260 x 50 x 220mm |
| Weight | 2.2kg |

## DISC CHANGER

| | CX-DH801N |
|---|---|
| Total Harmonic Distortion (1kHz, 0dB) | 0.006% |
| Frequency Response | 5Hz–20kHz, ±1dB |
| Signal-to-Noise Ratio | 96dB |
| Output Level | 2V (rms) |
| Power Source (DC) | 12V (11V–16V) |
| Current Consumption | 1.0A |
| Dimensions (W x H x D) | 230 x 69.5 x 164.5mm |

## WMA, MP3, and Smart File Management

| | | |
|---|---|---|
| Number of Folders | WMA/MP3 | Max 255 |
| Number of Files | WMA/MP3 | Max 999 |
| Supported File System | WMA/MP3 | ISO 9660 Level 1, Level 2, Joliet, Romeo |
| Display Information | WMA | Folder Name/File Name/Artist Name/Title Name |
| | MP3 | (Folder Name/File Name/Artist Name/Title Name) |
| Displayable Characters | WMA/MP3 | 64 characters |
| Compression Formats | WMA | 64 - 192kbps |
| | Recommended/WMA | 64kbps or more and fixed |
| | MPEG 1 audio layer 3/MP3 | 32 - 320kbps |
| | MPEG 2 audio layer 3/MP3 | 8 - 160kbps |
| | Recommended/MP3 | 128kbps or more and fixed |

Screen images simulated.

Specifications are subject to change without notice.

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